

ERDEY, Laszlo, prof., dr. (Budapest, XI., Gellert ter 4); SVEHLA,
Cyula, dr. (Budapest, XI., Gellert ter 4)

Accuracy of silver determination by atomic absorption
methods. Acta chimica Hung 41 no.1/2:187-194 '64.

1. Institute of General Chemistry of Budapest Technical
University.

ERDEY, Laszlo, prof. dr. (Budapest, XI., Gellert ter 4); LIPTAY, Gyorgy, dr. (Budapest, XI., Gellert ter 4); DAVID, Peter (Budapest, II., Iovohaz u.39)

Derivatographic study of thermal decomposition of electrical insulating materials and insulators. Periodica polytechn electr 8 no. 3:242-250 '64.

1. Department for General Chemistry of the Polytechnical University, Budapest, and Research Institute for Electrical Industry, Budapest.
2. Editorial Board Member, "Periodica Polytechnica ~ Electrical Engineering" (for Erdey). Submitted Februrary 10, 1964.

ERDEY, Laszlo, prof., dr. (Budapest, XI., Gellert ter 4); KASA,
Imre, dr. (Budapest, XI., Gellert ter 4)

Examination of 2-hydroxy-4-amino-4'-methoxy-diphenylamine
redox indicator. Acta chimica Hung 41 no.1/2:59-65 '64.

1. Institut fur Allgemeine Chemie der Technischen
Universitat Budapest. 2. Mitglied, Redaktionskollegium,
"Acta Chimica Academiae Scientiarum Hungaricae" (for
Erdey).

LIPTAY, Gyorgy, dr okleveles vegyeszmernok, adjunktus; DAVID, Peter, okleveles
vegyesz; ERDEY, Laszlo, dr., okleveles vegyesz, akademikus

Derivatographic analysis of the heat caused decomposition of
electric insulators and insulations. Pt.l. Elektrotechnika
57 no.9:392-397 S '64.

1. Chair of General Chemistry, Budapest Technical University,
Budapest XI., Gellert ter 3 (for Liptay). 2. Research Institute
of Electric Industry, Budapest, VI., Nepk^oztarsasag utja 32
(for David). 3. Head, Chair of General Chemistry, Budapest
Technical University, Budapest XI., Gellert ter 3 (for Erd^ey).

L 63740-65 EWT(1)/IJP(c)

ACCESSION NR: AT5021739

HU/2502/64/041/01-/0037/0042

AUTHOR: Erdey, Jaszlo (Erdei, L.) (Doctor, Professor) (Budapest); Buzas, Ilona (Buzash, I.) (Doctor) (Budapest); Takacs, Jozsef (Takach, I.) (Budapest)

TITLE: Contribution to the luminescence mechanism of lucigenine

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 41, no. 1-2, 1964, 37-42

TOPIC TAGS: luminescence, light emission, laboratory optic instrument, catalysis

ABSTRACT: [German article] The luminescence of lucigenine was investigated under various experimental conditions with the aid of a modified Magnephot I microlumen meter. The lighting mechanism was found to be composed of two components, one reversible and the other irreversible. Catalysts such as ethyl alcohol, butyl alcohol, and osmium tetroxide, caused a shift in the ratio of these two components towards the irreversible. The emission of light without the presence of catalysts coincided with the formation of minute quantities of N-methylacridone.

Orig. art. has: 3 graphs.

Card 1/2

L 63740-65

ACCESSION NR: AT5021739

ASSOCIATION: Institut fur Allgemeine Chemie der Technischen Universitat, Budapest
(Institute for General Chemistry at the Technical University)

SUBMITTED: 03May63

ENCL: 00

SUB CODE: OP, GC

NR REF Sov: 001

OTHER: 004

JPRS

Card 1/2

L 63681-65

ACCESSION NR: AT5021741

HU/2502/64/041/01-/0059/0065

AUTHOR: Erdey, Laszlo (Erdei, L.) (Professor, Doctor) (Budapest); Kasa, Imre (Kasha, I.) (Doctor) (Budapest)

TITLE: Investigation of the oxidation-reduction indicator 2-hydroxy-4-amino-4 prime-methoxy-diphenylamine

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 41, no. 1-2, 1964, 59-65

TOPIC TAGS: oxidation reduction reaction, diphenylamine

ABSTRACT: [German article] The transition potential of the indicator, the number of electrons participating in the oxidation-reduction mechanism, the reversibility of the indicator mechanism, and the absorption spectrum of the indicator were established and discussed. Two protons and two electrons participate in the oxidation process which yields violet-colored p-quinoidal compounds; no semiquinone was detected. The

S
B+1

Card 1/2

L 63681-65

ACCESSION NR: AT5021741

indicator performs reversibly in the 2-12 pH range; it is suitable within these limits for mildly oxidizing systems. Orig. art. has: 2 tables, 5 graphs, 2 formulas.

ASSOCIATION: Institut fur Allgemeine Chemie der Technischen Universitat, Budapest
(Institute for General Chemistry at the Technical University)

SUBMITTED: 22May63

ENCL: 000

SUB CODE: OC, GC

NR REF Sov: 000

OTHER: 009

JPRS

llc
Card 2/2

L 63677-65

ACCESSION NR: AT5021747

HU/2502/64/041/01-/0109/0122

AUTHOR: Erdey, Laszlo (Erdei, L.) (Doctor, Professor) (Budapest); Paulik, Ferenc; Buzach-Gere, Eva (Buzag, E.) (Budapest); Polos, Laszlo (Polosh, L.)

TITLE: Derivatographic and electron-microscopic examination of barium sulfate precipitates. Part 2

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 41, no. 1-2, 1964, 109-122

TOPIC TAGS: chemical precipitation, barium compound, sulfate, electron microscopy

ABSTRACT: Barium sulfate precipitates obtained in various analytical precipitations were examined by derivatography and electron microscopy. Pure barium sulfate was obtained only from very dilute solutions even after all volatile impurities were eliminated by calcination. Eighteen electron micrographs and 9 derivatographic curves were presented and discussed. Orig. art. has: 27 figures, 1 table.

ASSOCIATION: Institut fur allgemeine Chemie der Technischen Universitat, Budapest (Institute for General Chemistry, Technical University)

Card 1/2

L 63677-65

ACCESSION NR: A75021747

SUBMITTED: 03Jan64

ENCL: 00 SUB CODE: GC, OP

NR REF GOV: 001

OTHER: 020 JPR3

CC
Card 2/2

L 63899-65 EPF(c)/EMP(j) RM
ACCESSION NR: AT5022529

HU/2502/64/042/002/0131/0144

20

19+1

AUTHOR: Csuros, Zoltan (Churyesh, Z.) (Professor, Doctor) (Budapest); Dueza, Zsigmond (Dusa, Zs.) (Budapest); Petro, Jozsef (Petro, I.) (Doctor) (Budapest); Erdey, Laszlo (Erdei, L.) (Professor, Doctor) (Budapest); Paulik, Ferenc (Budapest)

TITLE: Investigations on catalysts. Part 40: Investigations on Raney-nickel catalysts. Section 15: Effects of the alkali used as extractant and of the hydrogen content on the activity

SOURCE: Academiae scientiarum hungaricae. Acta chimica, v. 42, no. 2, 1964, 131-144

TOPIC TAGS: nickel, catalysis, hydrogen, basic catalysis

ABSTRACT: A derivatographic method was developed for the study of pyrophoric catalysts such as those from Raney-nickel. The method was applied to catalysts prepared by using various solvents such as sodium hydroxide, potassium hydroxide, and sodium carbonate solutions. Catalysts prepared by using KOH or NaOH contained relatively high quantities of hydrogen and the hydrogen content was in proportion to their nickel content. However, no relation was evident between the catalyst's composition and its effectiveness. Orig. art. has 1 graph and 4 tables.

Card 1/2

L 63899-65

ACCESSION NR: AT5022529

ASSOCIATION: Institute of Organic Chemical Technology, Technical University,
Budapest; Institute of General Chemistry, Technical University, Budapest

SUBMITTED: 10Feb64

ENCL: 00

SUB CODE: GC

NO REF Sov: 002

OTHER: 012

JPRS

llc
Card 2/2

KOCSIS, Elemer; KRYV, Laszlo

Examination of the adaptability of suspending techniques to
spectrometers. Gep 17 no.1 24 Ja 1965.

1. Chair of General Chemistry of Budapest Technical University.

INCZÉDY, János, dr. (Budapest, XI., Gellert ter 4); NEMESHEGYI, Gábor (Budapest, XI., Gellert ter 4); ERDEY, László, prof., dr. (Budapest, XI., Gellert ter 4)

Separation and determination of rare earth metals by ion exchange chromatography. Pts.1-2. Acta chimica Hung 43 no.1:1-15 '65.

1. Institute of General Chemistry of Budapest Technical University.
Submitted July 2, 1964.

L 63187-65

ACCESSION NR: AT5021755

HU/2502/64/041/01-/0187/0194

AUTHOR: Khalifa, H. (Khalifa, Kh.) (Doctor) (Giza); Erdei, Leszlo (Erdei, L.) (Doctor, Professor) (Budapest); Svehla, Gyula (Shevkhla, D'.) (Doctor) (Budapest)

TITLE: Accuracy of silver determinations by atomic absorption methods 7
B7/

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 41, no.1-2, 1964,
187-194

TOPIC TAGS: silver, spectrophotometry, chemical detection

ABSTRACT: The optimum experimental conditions for the determination of silver by atomic-absorption spectrophotometry were determined and various calibration curves were presented. Foreign metals did not interfere with the determinations. The errors of the determinations in various concentration ranges (varying from 10 to 1300 p.p.m.) were established and presented in tables. Orig.art. has: 7 tables, 2 figures, 1 formula.

ASSOCIATION: Institute of General Chemistry, Technical University, Budapest
SUBMITTED: 22Jan64 ENCL: 00 SUB CODE: IC,NP
NR REF Sov: 000 OTHER: 004 JPRS

7700F
Card 1/1

L 63899-65 E/F(c)/EMP(3) RM

ACCESSION NR: AT5022529

HU/2502/64/042/002/0131/0144

20
19
18

AUTHOR: Csuros, Zoltan (Chyuryesh, Z.) (Professor, Doctor) (Budapest); Dusza, Zsigmond (Dusa, Zh.) (Budapest); Petro, Jozsef (Petro, I.) (Doctor) (Budapest); Erdey, Laszlo (Erdei, L.) (Professor, Doctor) (Budapest); Paulik, Ferenc (Budapest)

TITLE: Investigations on catalysts. Part 40: Investigations on Raney-nickel catalysts. Section 15: Effects of the alkali used as extractant and of the hydrogen content on the activity

SOURCE: Academiae scientiarum hungaricae. Acta chimica, v. 42, no. 2, 1964, 131-144

TOPIC TAGS: nickel, catalysis, hydrogen, basic catalysis

ABSTRACT: A derivatographic method was developed for the study of pyrophoric catalysts such as those from Raney-nickel. The method was applied to catalysts prepared by using various solvents such as sodium hydroxide, potassium hydroxide, and sodium carbonate solutions. Catalysts prepared by using KOH or NaOH contained relatively high quantities of hydrogen and the hydrogen content was in proportion to their nickel content. However, no relation was evident between the catalyst's composition and its effectiveness. Orig. art. has 1 graph and 4 tables.

Card 1/2

L 63899-65

ACCESSION NR: AT5022529

ASSOCIATION: Institute of Organic Chemical Technology, Technical University,
Budapest; Institute of General Chemistry, Technical University, Budapest

SUBMITTED: 10Feb64

ENCL: 00

SUB CODE: GC

NO REF Sov: 002

OTHER: 012

JFRS

llc
Card 2/2

L 1179-66
ACCESSION NR: AT5025201
55 HU/2502/64/042/004/0379/0382

AUTHOR: Liptay, Gyorgy (Doctor) (Budapest); Hegyaljai Kiss, Geza (Doctor) (Budapest);
Erdey, Laszlo (Professor, Doctor) (Budapest)

TITLE: Investigation by thermal analysis of the pyrolytic dehydrogenation of sterols

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 42, no. 4, 1964, 379-382

TOPIC TAGS: thermal analysis, pyrolysis, dehydrogenation, alcohol

Abstract: [English article] The pyrolytic decomposition of $\Delta^1,4$ -androsta-diene-3,17-dione and of $\Delta^1,4,6$ -androstratriene-3,17-dione was investigated by thermal analysis employing the Orion CYEM 676 type derivatograph. The curves obtained indicated that the splitting temperature of the angular methyl group is not affected by the presence of the unsaturated B-ring, and the first-mentioned compound pyrolyzed at a higher exothermic rate. Orig. art. has 4 formulas and 2 figures.

ASSOCIATION: Department of General Chemistry, Technical University, Budapest;
Chinoin Factory of Pharmaceutical and Chemical Products, Budapest

SUBMITTED: 12 May 64

NO. REF Sov: 000

Card 1/1

ENCL: 00 55 SUB CODE: OC, GO
OTHER: 008 JPRS

L 41682-66 EWP(t)/ETI IJP(c) JD/JA
ACC NR: AT6031101

SOURCE CODE: HU/2502/65/043/002/0095/0100

AUTHOR: Erdey, Laszlo--Erdei, L. (Professor; Doctor); Kasa, Imre--Kasha, I. (Doctor);
Kovacs, Laszlo--Kovach, L.

ORG: Technical University of Budapest, Institute of General Chemistry; Frederic Joliot-Curie Institute of Radiation Biology, Budapest

TITLE: Investigation of the thermoluminescent properties of lithium fluoride ³⁵

SOURCE: Academia scientiarum Hungaricae. Acta chimica, v. 43, no. 2, 1965, 95-100

TOPIC TAGS: ^v lithium fluoride, thermoluminescence

ABSTRACT: Changes in the thermoluminescent properties of lithium fluoride which take place on the effect of different factors were investigated. Thermoluminescence was found to depend on the nature of the lithium compound which served as an initial substance for the preparation of lithium fluoride. The same physical influences had different effects on lithium fluoride preparations obtained from various starting materials. Thermoluminescence was markedly increased by the addition of calcium fluoride. The authors thank Grad.-Engr. O. Roka for construction of the measuring device and for assistance with the measurements. Thanks are also given to Grad.-Engr. E. Kocsis for the spectrographic analysis. Orig. art. has: 4 figures and 1 table. /JFRS: 33,540/

SUB CODE: 07, 20 / SUBM DATE: 20Feb65 /ORIG REF:001 / SOV REF:001 / OTH REF:014

Card 1/1 af

0918 2321

L 47233-66 LIP(c)
ACC NR: AF 6034307

SOURCE CODE: HU/0005/66/000/006/0268/0269

37B

AUTHOR: Erdey, Laszlo; Kantor, Tibor

ORG: Academic Research Group of Technical Analysis, Department of General Chemistry,
Technical University, Budapest (Muszaki Egyetem, Altalanos-Kemial Tanszek, Muszaki
Analitikai Akademial Kutato Csoport)

TITLE: Continuous introduction of powdered substances into spectroscopic light sources

SOURCE: Magyar kemial folyoirat, no. 6, 1966, 268-269

TOPIC TAGS: spectroscopy, spectroscopic analysis

ABSTRACT: A device is described which can be used for the continuous introduction of solid, powdered materials into arc and spark light sources. The substance is introduced through a tube-electrode with the aid of a crew spindle which is rotated at a constant speed by an electric motor. The "tube-electrode method" is simple and versatile, and can be applied in various spectroscopic analyses. Orig. art. has: 1 figure. [JPRS: 36,862]

SUB CODE: 20 / SUBM DATE: 26Sep65 / ORIG REF: 002 / OTH REF: 010

Card 1/1 hs

ERDEYNE SCHNEER, Anna

Some newer methods for rock and mineral analysis. Magy kem lap 19 no.6:
325-329 Je '64.

1. Research Group of Inorganic Chemistry, Hungarian Academy of
Sciences, Budapest.

ERDEYNE SCHMEER, Anna, a kemial tudomanyok kandidatusa

Newest results in inorganic chemical qualitative analysis.
Kem tud kozl MTA 22 no.1:71-88 '64.

1. Chair of General Chemistry, Lorand Eotvos University,
Budapest.

RADNOT, Magda; VEYNSTEYN, P.[Weinstein, P.], doktor med.nauk,nauchnyy red.; CHAPODI I.[Csapodi, I.], doktor med. nauk, nauchnyy red.; SIZA, Mario[Szisa, Mario, translator]; ERDI, K., otv. red.; CHERGE, I. [Csorgo, I.], tekhn. red.

[Atlas of eye diseases]Atlas glaznykh boleznei. Budapest, Akademiai Kiado. Vol.2. 1963. 199 p. (MIRA 15:12)

1. Chlen-korrespondent Akademii nauk Vengrii.
(EYE—DISEASES AND DEFECTS)

ERDEY-GRUZ, Tibor; MAJTHENYI, Lajos

Migration mechanism of hydrogen and hydroxyl ions. Pt. 5.
Magy kem folyoirat 65 no. 5:167-174 My '59.

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemiai Tanszeke,
Budapest.
2. "Magyar Kemial Folyoirat" felelos szerkesztoje (for Erdey-
Gruz).

ERDEY-GRUZ, Tibor; MAJTHENYI, Lajos

Migration mechanism of hydrogen and hydroxyl ions. Pt. 6.
Magy kem folyoir 65 no. 6:212-218 Je '59.

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemiai Tanszek, Budapest.
2. "Magyar Kemial Folyoirat" felelos szerkesztoje (for Erdey-Gruz).

ERDEY-GRUZ, Tibor, dr., akademikus, egyetemi tanar (Budapest)

The fight and unity of the opposites in thermodynamics. Term tud
kozl 5 no.2:65-66 F '61.

ERDEY-GRUZ, Tibor

In commemoration of the 250th anniversary of the birth of Mikhail
Vasil'evich Lomonosov. Magy kem lap 16 no.12:529-530 D '61.

ERDEY-GRUZ, T. (Budapest); DEVAY, J. (Budapest)

Raising the depolarization of quicksilver electrodes
by alternating current. Rev chimie 7 no. 1: 181-188
'62.

1. Lehrstuhl fur physikalische Chemie und Radiologie der
Roland-Eotvos-Universitat; Elektrochemische Forschungs-
gruppe der Ungarischen Akademie der Wissenschaften,
Budapest.

ERDEY-GRUZ, Tibor, dr.

Answers by Dr. Tibor Erdey-Gruz, president of the Council of Science and Higher Education. Muzs elet 17 no.24:3 22 N '62.

1. Tudomanyos es Felsooktatasi Tanacs elnöke.

ERDEY-GRUZ, Tibor; DEVAY, Jozsef; VAJASDY, Irma

Effect on sine currents on electrode processes.X. Effect of
sine currents on the hydrogen overvoltage of platinum cathode.
Magy kem folyoir 68 no.5:185-190 My '62.

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemiai es Radiologial
Tanszeke, Budapest, es Magyar Tudomanyos Akademia Elektrokemial
Kutato Csoportja, Budapest. 2. "Magyar Kemiali Folyoirat"
felelos szerkesztoje (for Erdey-Gruz).

ERDEY-GRUZ, Tibor; DEVAY, Josef; SZEGEDI, Robert

Effect of sine currents on electrode processes. XI. Effect of alternating currents on the Hg-Zn corrosion in the case of the processes of mixed control. Magy kem folyoir 68 no.5:190-193 My '62.

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemiai Tanszeka, Budapest, es a Magyar Tudomanyos Akademia Elektrokemial Kutato Csoportja, Budapest. 2. "Magyar Kemial Folyoirat" felelos szerkesztoje (for Erdey-Grus).

ERDEY-GRUZ, Tibor; DEVAY, Jozsef; HORANYI, Gyorgy; VAJASDY, Irma

The effect of sinusoidal current on electrode processes.XII.
Magy kem folyoir 68 no.9:373-376 S '62.

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemial es Radiologiai
Tanszeka, Budapest, es Magyar Tudomanyos Akademia Elektrokemial
Kutato Csoportja. 2. "Magyar Kemial Folyoirat" felelos
szerkesztoje (for Erdey-Grus).

SZABO, Zoltan, egyetemi tanar; POLINSZKY, Karoly, a kemial tudomanyok doktora; MATOLCSY, Kalman, a kemial tudomanyok kandidatusa; LEVAY, Gyula; NAGY, Ferenc, a kemial tudomanyok doktora; HERECZ, Endre, a kemial tudomanyok kandidatusa docens; KORACH, Mor, akademitus; LENGYEL, Sandor, a kemial tudomanyok doktora; SCHAY, Geza, akademikus, egyetemi tanar; ERDEY-GRUZ, Tibor, akademikus

1. Problems of and experiences with coordinating the main task of the long-range research entitled "Investigation of the mechanism of chemical processes as well as the regularities of chemical industrial operations." Kem tud kozl MTA 20 no.2: 199-229 '63.

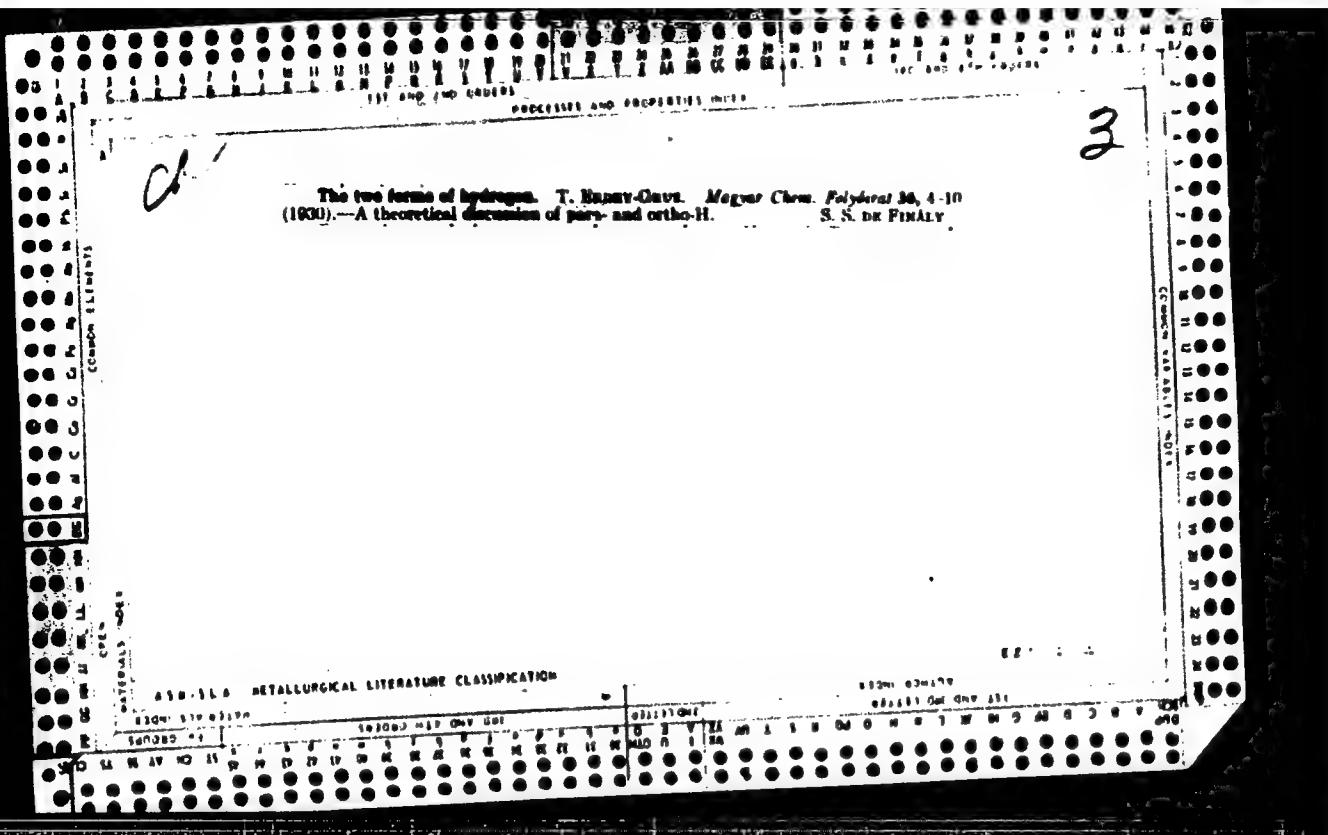
1. Magyar Tudomanyos Akademia levelező tagja; "A Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak Kozlemenyei" szerkeszto bizottsagi tagha (for Szabo). 2. Veszpremi Vegyipari Egyetem rektora; "A Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak Kozlemenyei" szerkeszto bizottsagi tagja (for Polinszky).
3. Magyar Tudomanyos Akademia Kozponti Kemial Kutato Intezete igazgatohelyettese (for Nagy). 4. Eotvos Lorand Tudomanyegyetem Fizikai Kemial es Radiologiai Tanszeke. 5. Magyar Tudomanyos Akademia Muszaki Kemial Kutato Intezetenek igazgatoja; "A Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak Kozlemenyei" szerkeszto bizottsagi tagja (for Korach). 6. Akademia Elektrokemial Kutato Csoport vezetoje; "A Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak Kozlemenyei" szerkeszto bizottsagi tagja (for Lengyel).

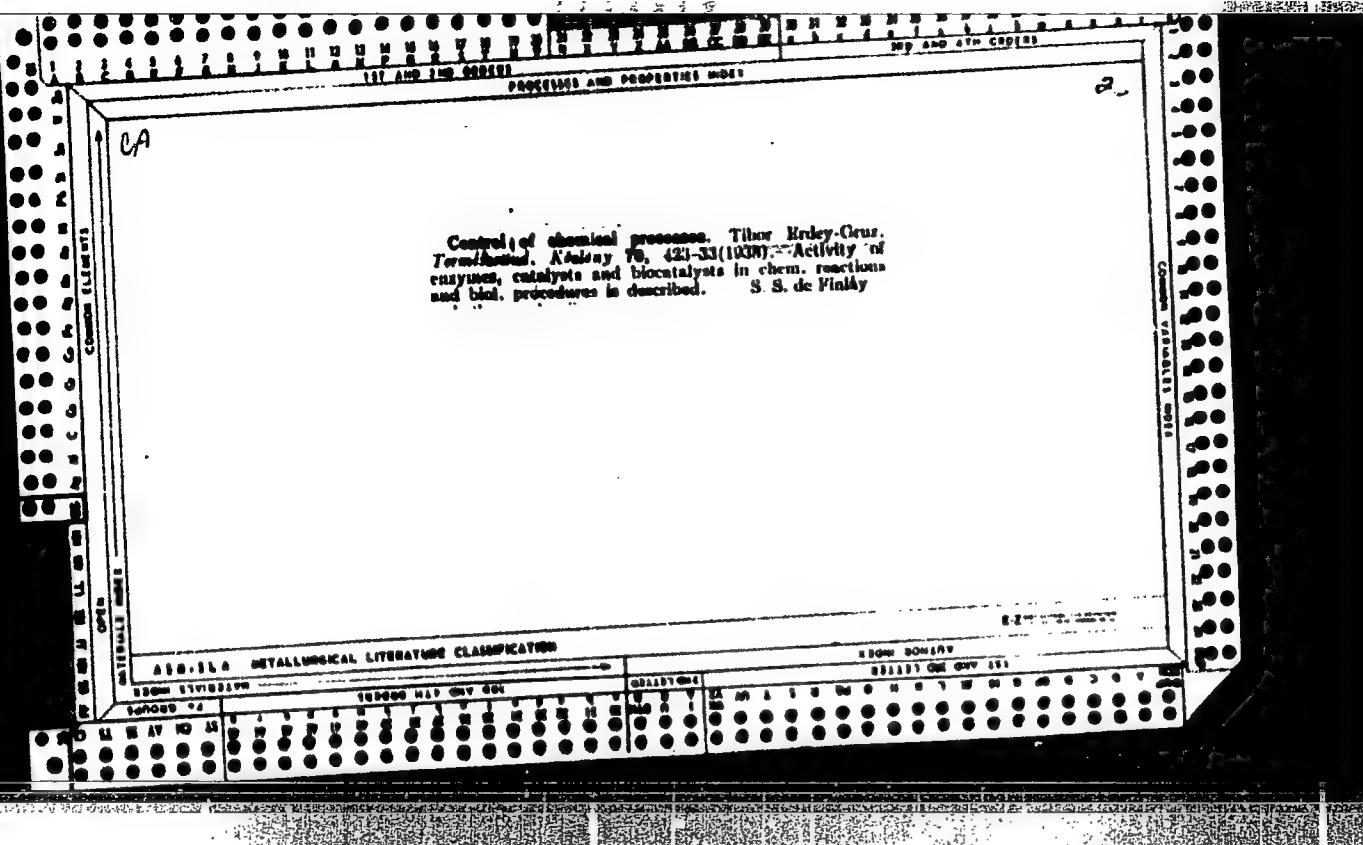
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ERDEY-GRUZ, Tibor, akademikus

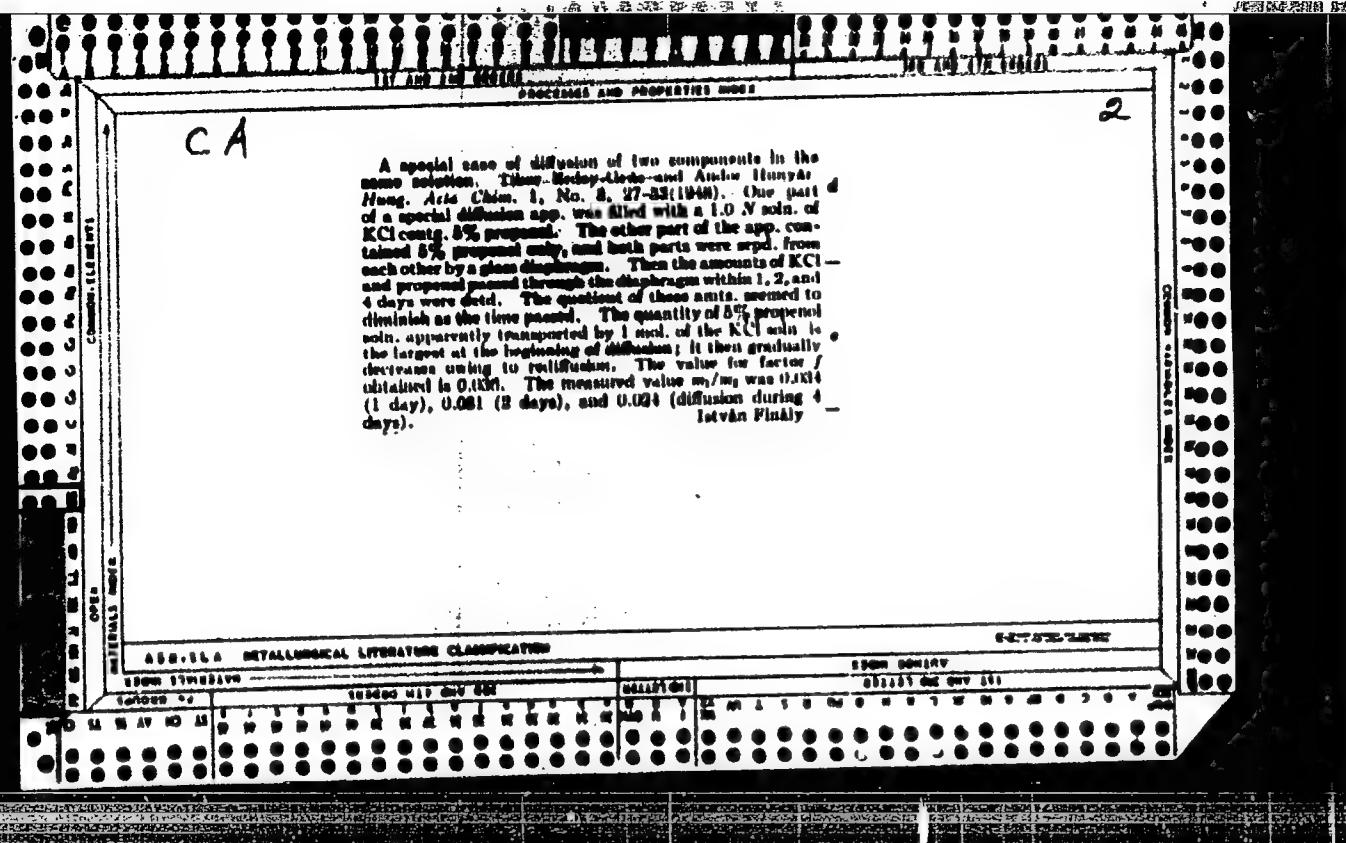
The state of natural sciences and the Hungarian national
long-range scientific research plan. Magy tud 70 no.1:7-18
Ja '63.

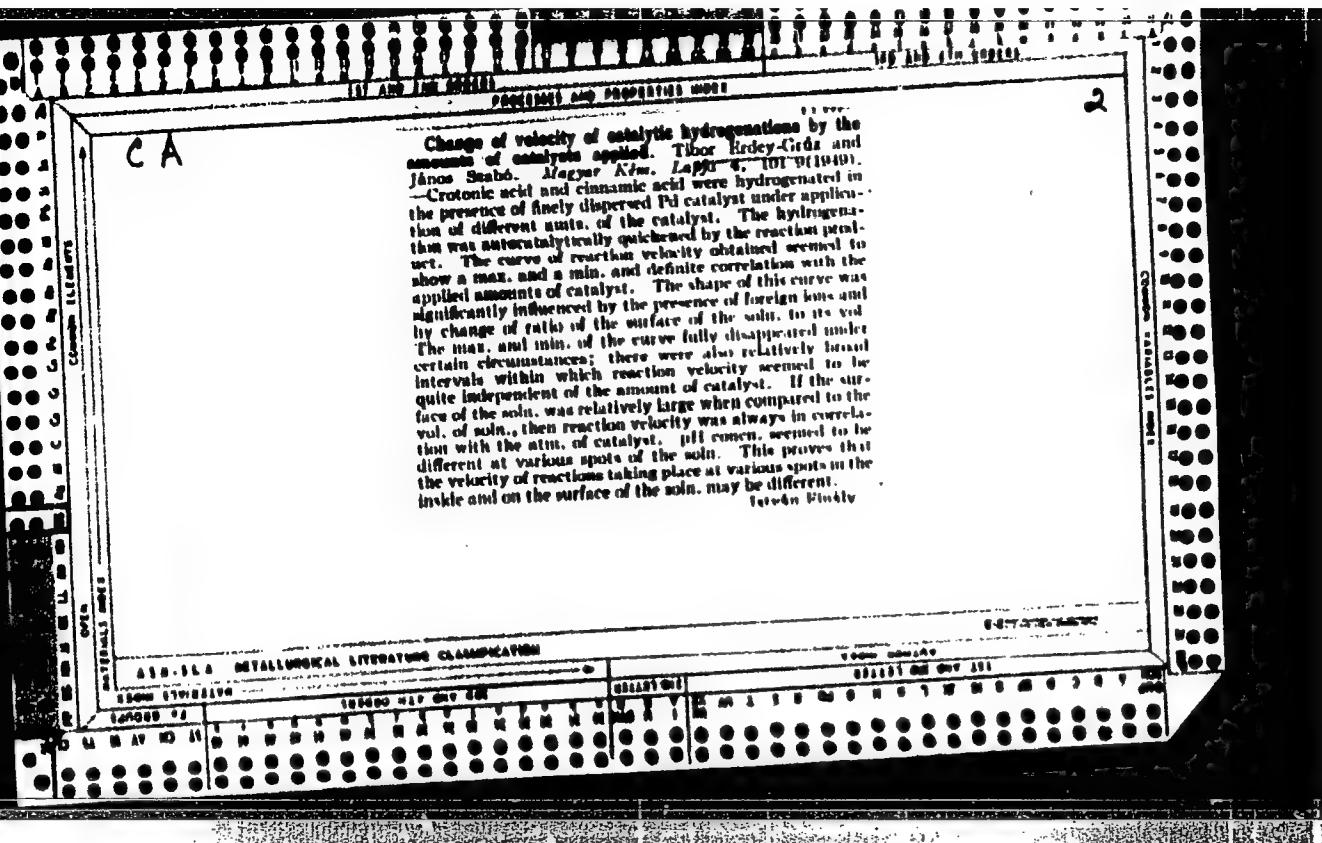
1. Tudomanyos es Felsoktatasi Tanacs elnöke.





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<i>CA</i>		<p>Differences of concentrations caused by diffusion and the effect of glass diaphragms on diffusion rate. Tibor Herley, Gábor, András Illésy, Béla Pogány, and Ákos Váli. <i>Hung. Acta Chim.</i>, I, No. 3, 7-26 (1948).— Diffusion expts. were carried out with strong electrolytes (KCl, LiCl, HCl, NaCl, KBr, Li₂Ca₃O₂, BaCl₂, and MgCl) in the presence of P(OH)₄, sucrose, AcOH, propionic acid, butyric acid, crotonic acid, succinic acid, malic acid, citric acid and As₂O₃. A Jena glass diaphragm of type G 4 was used. The electrolyte was present at the beginning of the expt. only in the soln. on one side of the diaphragm. The concn. of the various added org. substances (excepting As₂O₃) seemed to grow in that part towards which the ions are diffusing. The quantity of transported substances is higher than the quantity of water transported by the diffusing ions at the same time with their hydrate shells. This transport of org. substances is not a consequence of solvation of strong ions but seems to be connected with the mechanism of diffusion. The diffusion of electrolytes in presence of added org. substance is unavailable for the determination of hydration values and makes doubtful the reliability of relative hydration values deduced by means of transport ions. The radius of the largest pores of diaphragms of type G 4 is 4.5-6.0 microns, 40-60% of the pores being not larger than 1.2-1.8 microns. Diaphragms of the type G 3 contain pores with a max. radius of 9-10 microns, about half</p>										<i>2</i>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		<p>of the pores being of the size 1.8-2.8 microns. The influence of diaphragms upon the rate of diffusion of KCl is approx. proportional to the total cross section of pores. The permeability of glass diaphragms for water and N₂ was also detd. The permeability and the effect of diminishing the rate of diffusion with most diaphragms seemed to be in a relation corresponding to their pore distribution.</p>										István Vánky																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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C.A.

Electrolysis of complex silver salt solutions. Tibor Egyed-Gyurcs and Valéria Horváth (Univ., Budapest, Hung.). *Magyar Kém. Lapja* 6, 524-31 (1949).—A device was constructed for the purpose of scratching the surface of a silver electrode during electrolysis. This electrode was prep'd. from a thick wire by hammering it into a disklike shape. Solns. contg. various amts. of AgNO_3 , $\text{KAg}(\text{CN})_2$, and $\text{Ag}(\text{NH}_3)_2\text{OH}$ were electrolyzed and the mechanism of deposition of Ag on the cathode was studied. Gaseous N was bubbled through the solns. during electrolysis to inhibit the dissolving of Ag in the cyanide soln. The max. current ds. were detd. at which the Ag pptn. on the cathode still agreed with the law of Faraday; these values are called "limits" of 100% Ag pptn. (100%). This limit was the highest in AgNO_3 solns. as compared to other solns. of identical concn., and the lowest in solns. of $\text{Ag}(\text{NH}_3)_2\text{OH}$. The value of 100% increased parallel to the increase of Ag concn., but showed no alteration when KNO_3 or NH_3OH was added to the soln. at a given Ag concn. The addn. of excess KCN to a soln. of $\text{KAg}(\text{CN})_2$ diminished the value of 100%. Increasing the temp. in the interval 0-20° increased the value of 100% by about 1% for each degree centigrade. A correlation of the anodic-dissolving effect to the current ds. similar to that of the cathode was observed. The numeric value of 100% appeared somewhat higher for the anode. The presence of KNO_3 , KCN, and NH_3OH increased the value of anodic 100%. The results of expts. show no significant differences between electrolytic pptn. of Ag from Ag ion hydrates present in simple solns. of Ag salts and

electrolytic pptn. of Ag from complex ion solns. The mechanism of the process is the following: The ions are sep'd. from the soln. by the force of the cathodic field, then they go to the surface of cathode, where they are neutralized. The Ag lost from the soln. by this pptn. is replaced by diffusion. The ion transfer due to the elec. current does not play a significant role in this respect. Calcas. based on these principles showed that the thickness of the layer between the surface of the cathode and the interior of the soln. must be about 10^{-3} cm. This is in accordance with results obtained in other fields. Diffusion actually transfers Ag in amts. corresponding to the cathodic current ds. up to the 100% values. In the case of current ds. above this rate, the diffusion is unable to replace the full amt. of Ag required. Existence of anodic dissolving effects below 100% is probably due to a layer covering the surface of the anode with solid salts. It seems that this layer forms when the velocity of Ag soln. becomes greater than the velocity of diffusion between the produced salt and that portion of the soln. which is in immediate contact with the surface of anode, and the latter thus becomes oversat'd. in respect to Ag compds.

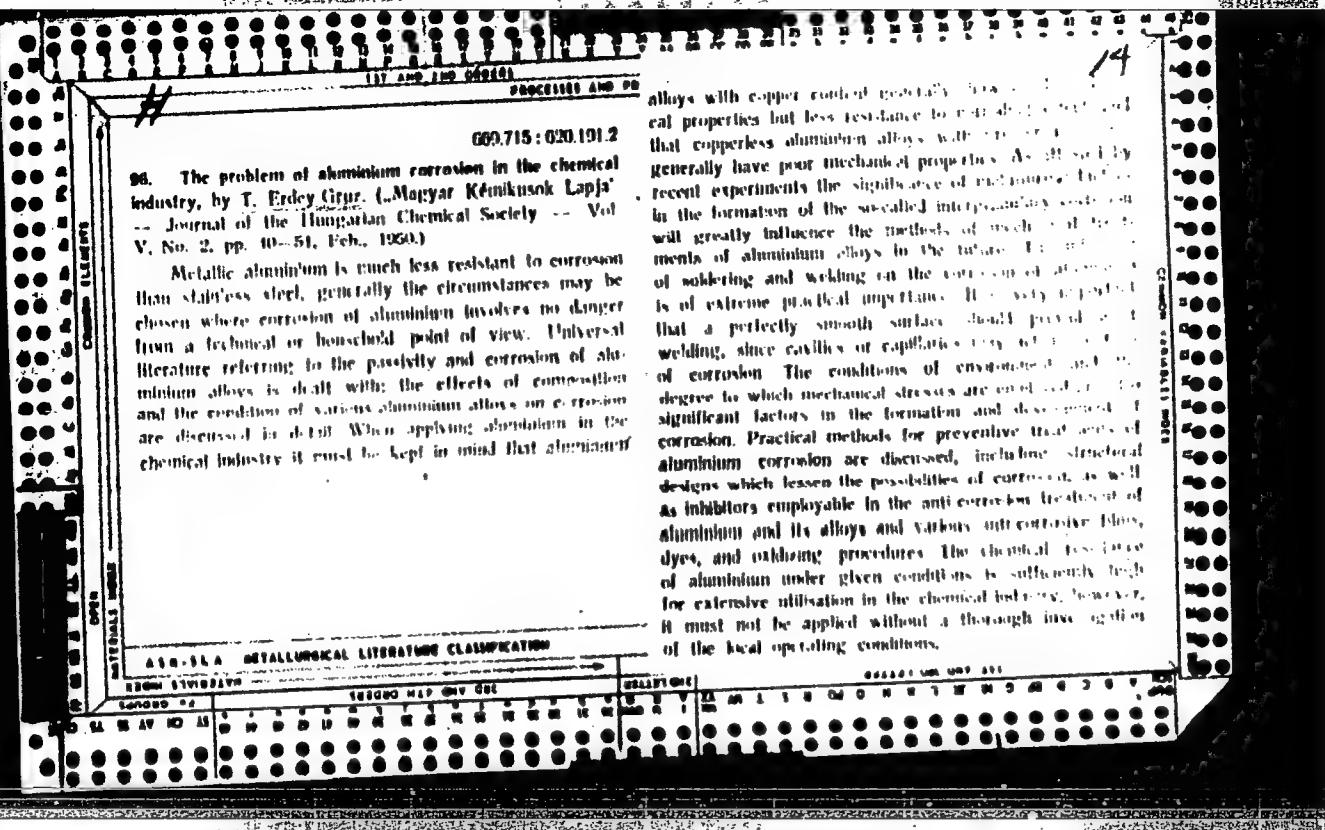
I. Finally

CA

Oscillographic analysis. The possibilities of a surface investigating method. Tibor Erdéy-Gráz (Univ., Budapest) *Magyar Kém. Folyóirat* 50, 53-7(1960).—The polarization capacity of a metallic surface depends on the condition of this surface and on the changes occurring thereon. The correlation of the polarization capacity with the changes in potential serves as a basis for detg. the conditions of the metallic surface and its changes, even when the surface area is unknown. For the detg. of polarization capacity the oscillographic method seemed to be suitable (C.A. 26, 1108). The oscillographic analysis of a Pt electrode in 1.0 N H₂SO₄ soln. with gaseous H showed that the potential increase from O potential to H potential is not linear. A sharp increase at the beginning is later followed by a steadier period, and ends with another sharp increase. The const. value was 0.85-0.90 v. more pos. than the H-potential, corresponding to the potential of PtO, the test affirming the formation of an oxide layer on the surface of the Pt electrode. Other examples show the suitability of the oscillographic method for the study of surface processes of metals. The classic electrochem. law states that in the event of several possible electrode processes the process with the min. pos. or neg. potential will occur. Oscillographic studies proved that this law should be applied with caution, since under certain conditions, processes requiring more pos. potentials may occur.

István Finálv

1951



~~ERDEY-GRUZ~~

L239215

Oscillographic Analysis; Feasibility of a Method of Examining (Metal)
Surfaces (Oszcillografikus Analizis; Egy Felületvizsgalati Módzser
Lehetősége). Tibor Erdey-Gruz. (Magyar Kemiai Folyoirat, No. 2, 1950,
p. 83.) Gt. Brit., RAE Lib. Trans. 463, May, 1954. 10 pp. 16 refs.



BURGARY | Chemistry - Catalysts - Hydrogenation on the
Rate of Hydronation. T. Erdelyi. Budapest U
of the Rate "in German" Vol 1, No 1,
Catalyst. Chem and Phys. "Burgary" Vol 1, No 1,
Science, Catalysis, Chemistry, Physics, Bergaricæ.
Burgary, Chemistry, Catalysis, Bergaricæ.

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"Dependence of Catalyst, Chem. and
Quantity, Inst. Phys. Hungaricae," Vol.
J. Szabo, Acad. Sci. and cinnamic acid
Hydro-
"Acta Chimica" 1965
pp. 46-65
hydrogenation of divided palladium effect on
catalytic function as it is af-
fected by foreign
hydrogenation and min. foreign
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In proportion. The reaction quantitatively affected by catalyst concn of catalysts (contd)

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APPROVED FOR RELEASE: Thursday, July 27, 2000

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ERDEY-GRUZ, TIBOR.

Elmeleti fizikai kemia (irtak) Erdey-Gruz Tibor es Schay Geza. 2. kiad. Budapest, Tankonyvkiado. (Egyetemi tankonyv) (Theoretical and physical chemistry; a university textbook. 2d ed. illus., diagrs., graphs, indexes, tables) Vol. 1. 1955. 619 p.

SO: Monthly Index of East European Accession (ELAI) LC. Vol. 7, No. 5, 1958

ERDEY-GRUZ, T. (Budapest)

Hungary

T. Erdey-Gruz, author of "Influence of cations upon oxygen overvoltage," presented at the 4th International Conference on Electrochemistry, Moscow, 1-6 October 1956,

Electrochemical

SOURCE: Program to the 4th International Conference on Electrochemistry, Moscow, 1-6 October 1956, Unclassified.

ERDEY-GRUZ, T.

Category : USSR/General Problems - Problems of Teaching

A-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 2783

Author : Erdei-Gruz, Tibor

Title : Physics Teaching in Hungarian Schools

Orig Pub : Fizika v shkole, 1956, No 4, 51-53

Abstract : No abstract

Card : 1/1

ERDEY-GRUZ, T.

10. The rate of catalytic hydrogenation

Gruz, K. Zinnyer. Magyar Kertetudomanyi

Vol. 62, 1956, No. 9, pp. 302-308, 21 figs.

The rate of hydrogenation of cinnamic acid sodium salt was studied in aqueous solution in the presence of palladium catalyst on barium sulphate carrier. The rate of hydrogenation as a function of the amount of the catalyst is influenced by several factors. Increase of the degree of dispersion of the catalyst increases the difference between the maximum and minimum reaction rate, and increases the rate of the reaction near the maximum. By increasing the surface-volume ratio of the solution, a parallel increase of the rate of hydrogenation is obtained. Presence of other electrolytes produces various effects: some of them (KCl , $BaCl_2$) decrease, others (K_2SO_4 , HCl , $NaOH$) increase or decrease the reaction rate depending on their concentration. If ammonium salts are present the rate of hydrogenation is independent of the amount of catalyst within a wide range. Reducing the pressure of hydrogen causes an almost proportional decrease of the reaction rate. An interpretation of the empirical connection between hydrogenation rate and amount of catalyst is attempted.

ERDEY-GRUZ T.

B-13

HUNGARY/Physical Chemistry - Surface Phenomena. Adsorption.
Chromatography. Ion Exchange.

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24356

Author : Erdey-Gruz T., Nagy F.

Inst : Hungarian Academy of Sciences.

Title : Adsorption of Ethylene at Activated Carbon in Water
Suspension.

Orig Pub : Acta chim. Acad. sci. hung., 1957, 12, No 1, 101-114

Abstract : Detailed description of a unit, designed by the authors,
for recording of adsorption isotherms (AI) by the volume-
tric method at a constant pressure, which is also suita-
ble for determination of AI and adsorption kinetics of
adsorbents suspended in water. Over the range of 0-500
mm Hg were recorded AI of ethylene at dry, activated wood
charcoal (I; 18.6, 20.0 and 25.0°) with a specific

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Erdely, L.

Distr: b2c

Oxidation-reduction titrations in nonaqueous media.
Laszlo Erdely and Gyorgy Rády (Tech. Univ., Budapest).
Acta Chem. Acad. Sci. Hung. 15, 81-83 (1958) (in German).
—By using ascorbic acid solns. as the reductant it is possible
to det. Br³⁺/Au^{III} / and Hg^{II} by potentiometric titration
in glacial AcOH. ICl, KMnO₄/Cd^{II}, and V^(V) can also
be titrated by using ascorbic acid solns. as reductant but the
stoichiometry of these reactions was not detd. The end
points are indicated by reproducible potential changes in all
cases, an abrupt change of 180 to 800 mv. being observed in
those systems suitable for detn. Pt and std. aq. calomel
electrodes were used, and the diffusion potential was neg-
lected.

Mark M. Jones

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JK JJD

L. Erdely
Distr: 4E2c/4E3d/4E2c(j)

17
Decomposition of hydrogen peroxide in an alkaline solution in the presence of a copper citrate complex. L. Erdely and J. Inczédy (Tech. Univ., Budapest). ~~Acta Chem.~~
~~Acad. Sci. Hung. 17, 93-111(1968)(in German).~~—A study of H₂O₂ decompr. in alk. soln. showed that on increasing pH values in the presence of a Cu⁺⁺-citrate complex the rate of decompr. rises linearly, whereas in pure alk. soln. there is a max. at pH 12. In the decompr. the homogeneous process is clearly discernible from the much slower process of O development on the walls. The HO₂ radical and intermediates of a brown Cu peroxy compd. (I) play a role in the homogeneous process. The rate of the over-all process is detd. by stationary I concn. and the concn. of perhydroxyl ions. When the initial mole ratio of H₂O₂ and Cu⁺⁺ ions exceeds 100, the stationary concn. of I is stable at a larger interval, within which a 1st-order reaction is observed. The const. stationary concns. are approx. independent of pH and of H₂O₂ concn. The activation energy of decompr. is 12 kcal./mole. Perhydroxyl ions are dominant in the decompr. and their activity is reduced by undissolved H₂O₂ mol. The homogeneous process is nearly independent of glass surface area in contact with the soln., but the rate of O development is proportional to surface area and, at high surface/vol. ratios, can approach the rate of decompr.
M. J. D. Low

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ERDE V. C.R.U.Z.

ATCA CHIMICA
Academiae Scientiarum Hungaricae
Vol 13, Nr 1-2, 1947

THE ACTION OF CATIONS ON THE POLYMERISATION OF VINYLIC MONOMERS

THE BEEF CATTLE AND LIVESTOCK
Classification of Mammals, Division 2, Part 1

• 200 11 373

1. When a platinum electrode immersed in a solution of iodide ions is moderately polarised at a low current density, the potential is increased with the logarithm of current density (i).

$$\eta = A + B \log i$$

The electrolyte sensitivity is very slight. After a lengthy treatment of the electrode in water, the value of B is increased.

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ACTA CHIMICA
Academiae Scientiarum Hungaricae
Vol 13, Nos 1-2, 1957

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14E3d

On raising the current density above 10^{-2} - 10^{-1} amp./sq. cm. (at an anode potential of about $\varphi = +2.0$ V), the polarization potential rapidly increases, and the course of reaction alters in that persulphates are gradually formed begins in solutions of higher concentration.

2. In pure solutions of sulphuric acid of 2.0 N and above this concentration, the polarization potential of the anode increases at a low current density approximately linear with the concentration. Parallel to the increase of polarization potential, the value of b rises from 0.106 (in a 2.0 N solution) to 0.139 (in a 9.0 N solution of sulphuric acid).

3. When the sulphates of different metals are dissolved in a solution of sulphuric acid, the polarization potential of the anode becomes more positive (compared at an identical current density) even at an unchanged total concentration of electrolyte or at an unchanged concentration of sulphuric acid. Referring to their action on increasing polarization, the sequence of the metal cations examined proved to be as follows: $K^+ > Al^{3+} > NH_4^+ > Zn^{2+} > Na^+ > Mg^{2+} > Li^+$. By rising polarization potentials, also the value of b increases from 0.106 to 0.139 in a 2.0 N solution. Metal cations showed similar action in a 9.0 N solution of sulphuric acid.

4. In solutions of pure salts of the metals examined, the correlation of the change of polarization potential with the nature of the cation was similar to those observed in the presence of sulphuric acid.

5. K^+ ions, with the increase of polarization potentials, showed an action of identical character both in the case of smooth and platinated platinum electrodes, and on nickel electrodes.

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Academiae Scientiarum Hungaricae
Vol 13, Nos 1-2, 1957

b. "The action of increasing polarization (measured at a low constant current intensity) showed an approximately linear correlation with the logarithm of the concentration of K^+ .
7. To interpret the increase of polarization potentials caused by metal cations, the authors presume that metal cations are adsorbed in the diffuse portion of the double layer, bound this way, alter the linkage of water molecules adsorbed by the electrode surface. Metal cations, other water molecules, and deform the latter in that that the activation energy of the electron leap from the water molecules to the electrode rises. Consequently, the electrode process becomes slower and, respectively, higher polarization potential is required to maintain a given rate (current density).
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ERODEY GRUZI
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1-4E3d
ACTA CHIMICA
Academiae Scientiarum Hungaricae
Vol 13, Nrs 1-2, 1957

EFFECT OF ALTERNATING CURRENT ON THE OVERPOTENTIAL OF OXYGEN
ON PLATINUM ANODE IN SOLUTIONS OF SULPHURIC ACID²⁷

J. FERDÉY-GRÜZI, J. SÁFARÍK
(Institute of Physical Chemistry, L. Eötvös University, Budapest.)

Received December 5, 1956

Summary

The changes of the polarization potential of a platinum anode (against a normal hydrogen electrode of p.v.) under the action of alternating current, superimposed to direct current, were examined in a 2.0 N and 9.0 N solution of sulphuric acid. A decrease of the overpotential was observed, the strength of which increased with increasing frequency and current density of direct current polarization (1 ampere/cm²) and the concentration of sulphuric acid.

The polarization curves ($\eta = A + b \log i$) proved to be linear with few exceptions, when working in the interval of oxygen evolution, and at low current densities (f.g. 1-4). In a 2.0 N solution the value of b slightly increases under the action of alternating current. In a 9.0 N solution, however, under the action of alternating current of 50-1000 Hz, the value of b significantly decreases, and becomes equal to the value with direct current. When the frequency of alternating current is higher than 1000 Hz, the value of b did not appreciably change (1-2%).

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Alternating current of low frequency reduces polarization in a 2,6 N solution of sulphuric acid by about 0,05 v. (Fig. 5, Table I), the minimum value of polarization and the maximum of depolarization appears at about 500-1000 Hz. Further rise in frequency a minimum depolarization and polarization attains at about 2000 Hz.

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1957, Vol. 13, Nrs 1-2, 1957

On the basis of the above results it can be stated that the alternating current of low frequency reduces polarization in a 2,6 N solution of sulphuric acid by about 0,05 v. This interesting current is reduced to zero at about 2000 Hz. The minimum polarization can be observed at a current density of 100 amp. sec/cm².

On the basis of the observed phenomena, it can be stated that the asymptote of oxygen evolution is reduced by a superposed alternating current. In other words, superposition of alternating current promotes the process of oxygen evolution. It is also observed that the temperature of perchloric acid has the same effect on the rate of oxygen evolution as that of the concentration of the acid.

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below that of reductions. However, at higher frequencies, the decreasing rate of bleaching increases, due to the limited value of the absorption coefficient. In the case of the experiments with solutions of high concentration of hydrosulphide ions, respectively, with the same concentration of higher concentration of

The experiments show that the increase in the rate of reduction is proportional to the rate of formation of the

~~SECRET~~ ERDEY-GRAN, Tibor

Distr: EEJ 7
Speed of catalytic hydrogenation. Tibor Katalin Grán,
and Károly Zimányi (BOLYAI Loránd Univ., Budapest,
Hung.). Magyar Kém. Folyóirat 62, 302-8 (1967).—Rates
of hydrogenation of Na aluminato were measured in aq.
solut. in the presence of Pd catalyst on BaSO₄ carrier. A
great number of assumptions had to be made when attempting
to explain the empirical correlation between rate and
amt. of catalyst. Francis J. Schmidt

[Signature]

ERDEY-GRUZ-TIBOR

The effect of cations on the polarization potential of platinum anodes and on the oxygen overvoltage. Tibor Erdey-Gruz and Imre Szeberély (Eötvös Loránd Univ., Budapest), Magyar Kém. Folyóirat 63, 221-31 (1957).—The mechanism of the processes at the Pt anode in H_2SO_4 solns. of different concns. was investigated by studying the effects of Li^+ , Na^+ , K^+ , NH_4^+ , Mg^{2+} , Zn^{2+} , Al^{3+} ions on the polarization potential. The presence of metallic ions in the H_2SO_4 solns. resulted in increased polarization at the Pt anode and in increased slope of the Tafel lines. The same effect of K^+ ions was observed at platinized Pt and Ni electrodes. The effect on the anodic polarization was directly proportional (at const. c.d.) to the logarithm of the K^+ concn. The behavior of the cations was explained by adsorption in the diffuse part of the double layer increasing the activation energy of the electrolytic O evolution.

Saul Patai

7

JJ

JJ

ERDEY-GRÜZ, TIBOR

HUNGARY/Physical Chemistry - Electrochemistry.

B-12

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 20777

Author : Tibor Erdey-Grüz, Imre Safarik.

Inst : -
Title : Influence of Alternating Current on Oxygen Overvoltage on
Platinum Electrode in Sulfuric Acid Solution.

Orig Pub : Magyar kém. folyóirat, 1957, 63, No 9, 237-242

Abstract : The dependence of oxygen overvoltage on smooth Pt at $i = 10^{-5}$ to 1 amp. per sq.cm in 2 n. H_2SO_4 , as well as 9 n. H_2SO_4 on the frequency (ν) of an additionally superimposed alternating current (50 to 20,000 cycles) was studied. With the rise of ν , the potential of Pt passes through a minimum, the depth of which at $i = 10^{-5}$ to 10^{-2} amp. per sq.cm is 0.05 to 0.06 v in the case of 2 n. H_2SO_4 , and 0.32 to 0.36 v in the case of 9 n. H_2SO_4 , and at $i = 1$ amp. per sq.cm it drops to 0.003 v and zero correspondingly. The depolarizing action of the

Card 1/2

HUNGARY/Physical Chemistry. Electrochemistry.

D

Abs Jour: Ref Zhur-Khim., No 15, 1958, 49711.

In solutions of KOH and KCl the minimum of (Λ, N) curves is flattened, is located in the interval $N = 40-60\%$, and corresponds to the maximum of the (Λ, N) curve. With increasing N up to 80-90% the temperature coefficient (TC) of Λ of all three electrolytes increases, while at higher N -- it drops. TC of Λ , over a wide range of N , varies approximately linearly with increasing N , and only with very low contents of water and I the TC decreases sharply. Energy of activation of electric conductivity A (in kcal/mole in all instances) is about 2.3 in pure I. With increasing N up to 75-85% A increases, after that it drops. Maximum values of A : 4.6 for HCl, 5.1 for KOH, 4.6 for KCl. For γ the Λ values increase with increasing N .

Card : 2/3

34

HUNGARY / Physical Chemistry. Electrochemistry. B
Abs Jour : Ref Zhur - Khimiya, No 12, 1959, No. 41723
Author : Erdey-Gruz, T.; Majthenyi, L.
Inst : Hungarian AS
Title : The Transfer Mechanism of Hydrogen and
Hydroxyl Ions. II. Transfer Numbers of
HCl, KOH, KF and KCl in Water-Methanol
Mixtures at Temperatures Ranging from
5-25°.
Orig Pub : Acta chim. Acad. scient. hung., 1958,
16, No 4, 417-438
Abstract : The transfer numbers n for HCl, KOH, KF
and KCl were determined by the moving
boundary method from a mixture of metha-
nol (I) and water at temperatures ranging

Card 1/4

HUNGARY / Physical Chemistry. Electrochemistry.

B

Abs Jour : Ref Zhur - Khimiya, No 12, 1959, No. 41723

raised. From the electroconductivity data published earlier (R. Zh. Khim, 1959, No 5, 14759), and the values of n obtained, the ion mobility λ , expression $\lambda \cdot \eta$ (η - viscosity), and temperature coefficients of the mobility (TCM) were calculated. TCM dependence on the solvent's water content passes through a maximum for all ions. The greatest maximum was observed with F^- and the smallest for H^+ ions. Maxima on TCM-composition, and η -composition curves were observed at identical compositions for H_3O^+ and OH^- ions, while those for K^+ , Cl^- and F^- occurred at different compositions. K^+ ion mobility was the same in KOH, KF and KCl solutions,

Card 3/4

HUNGARY/Physical Chemistry. Electrochemistry.

D

Abs Jour: Ref Zhur-Khim., No 5, 1959, 14759.

Author : Erdey-Gruz T., Hajthenyi L.

Inst :
Title : The Mechanism of Movement of Hydrogen and Hydroxyl
Ions. II. The Transfer Numbers of HCl, KOH, KCl and
KF in Methanol-Water Mixtures at 5 and 25°.

Orig Pub: Magyar kem. folyoirat, 1958, 64, No 6, 212-220.

Abstract: The transfer numbers (TN) of HCl, KOH, KCl and KF
in methanol (I) - water mixtures of various compo-
sitions have been measured at 5 and 25°. The TN
in the case of HCl and KOH strongly depend on the
water content in the mixture; in the case of KCl
and KF - they are insignificant. The TN of H⁺,

Card : 1/3

ERDEY-GRUZ, T., MAJHENYI, L.

Mechanism of migration of hydrogen and hydroxyl ions. V. Effects of the composition of ethanol and water on the transference numbers and ion mobilities of dissolved LiCl, KOH, KF AND KCl at 5 and 25 C. In German, p. 73

ACTA CHIMICA. Budapest, Hungary, Vol. 20, No. 1, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2 Feb. 1960
Uncl.

ERDEY-GRUZ, T.; MAJTHENYI, I.

Mechanism of migration of hydrogen and hydroxyl ions. VI. Effect of the temperature and composition of glycol-water mixture on the transference numbers and ion mobilities of dissolved HCl, KOH, KF and FCI at 5° and 25° C.

ACTA CHIMICA. (Magyar Tudomanyos Akademia) Budapest, Hungary. Vol. 20
No. 2, 1959

Monthly Lists of East European Accessions, (EEAI) LC, Vol. 9, No. 1, 1960
Uncl.

ERDEY-GRUZ, Tibor; KUGLER, Elvira; MIDVEGI, Judit

Migration mechanism of hydrogen and hydroxyl ions. Pt. 3. Magy
kam folyoirat 65 no.3:114-123 Mr '59.

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemiai Tanszeke, Budapest.
2. "Magyar Kemial Folyoirat" felelos szerkesztoje (for Erdey-Grus).
3. "Magyar Kemial Folyoirat" szerkesztosegi titkara (for Kugler).

ERDEY-CRUZ, T.; KUGLER, E.; HIDVEGI, J.

Mechanism of the migration of the hydrogen and hydroxyl ions. IV. Effect of the constitution of glycol-water mixtures on the conductivity of dissolved hydrochloric acid, potassium hydroxide, potassium fluorite, and potassium chloride as well as their viscosity at 5° and 25°C. p. 152.

MAGYAR KEMIAI FOLYOIRAT. Budapest, Hungary. Vol. 65, no. 4, Apr. 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

ERDEY-CRUZ, Tibor, r.tag (Budapest)

An account made by the Section's leadership; also, remarks by Gyula Hardy and others. Kem tud kozl MTA 14 no.2:141-175 '60. (EEAI 10:2)

1. Osztalytitkari, Magyar Tudomanyos Akademia Kemiasi Tudomanyok Osztalya, Budapest.
(Hungarian Academy of Sciences) (Hungary--Chemistry)

ERDEY-GRUZ, Tibor, akademikus (Budapest)

Transition of quantitative changes into qualitative ones as seen by a
chemist. Magy tud 67 no.8:467-484 Ag '60.
(EEAI 9:11)
(Chemistry)

ERDEY-GRUZ, Tibor, akadémikus (Budapest)

Quantitative changes turning into qualitative ones, as seen by the
chemist. II. Magy tud 67 no.9:529-543 S '60. (EEAI 9:12)
(Chemistry) (Gases) (Heat)
(Molecules) (Solutions)

ERDEY-GRUZ, Tibor, akademikus (Budapest)

High-level and up-to-date teaching in the institutions of higher
education. Magy tud 67 no.12:711-715 D '60. (EEAI 10:3)
(Hungary--Universities and colleges)

ERDEY-GRUZ, Tibor, egyetemi tanar (Budapest)

Modern science and religion; the voice of natural sciences. Munka 11
no.1:20-21 Ja '61.

(Religion and science)

ERDEY-GRUZ, Tibor, akademikus (Budapest); CHOLNOKY, Laszlo; SZABO, Zoltan;
SZEKER, Gyula, kandidatus; FOLDI, Zoltan; LANGYEL, Sandor, a tudomanyok
doktora; TAKACS, Pal, kandidatus

An account of the 1960 work of the Section of Chemical Sciences,
Hungarian Academy of Sciences. Kem tud kozl MTA 15 no.4:401-460 '61.

1. Osztalytitkar, Magyar Tudomanyos Akademia Kemiai Tudomanyok Osztalya,
Budapest es Szerkeszto, Magyar Tudomanyos Akademia Kemiai Tudomanyok
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Akademia Kemiai Tudomanyok Osztalyanak Kozlemenyei(for Cholnoky, Szabo,
Foldi) 3.Szerkesztobizottsagi tag, Magyar Tudomanyos Akademia Kemiai
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ERDEY-GRUZ, Tibor, dr.

Fight and unity of antitheses as seen by a chemist. Magy kem lap 16
no.4:147-155 Ap '61.

1. Eotvos Lorand Tudomany Egyetem Fizikai Kemial es Radiologiai
Intezete, Budapest.

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Mass and weight. Elet tud 16 no.16:500-501 16 Ap '61.

ERDEY-GRUZ, Tibor, Kossuth-díjas akadémikus

Is matter destructible? Elet tud 16 no.191596-598 7 My '61.

ERDEY-GRUZ, Tibor, Kossuth-díjas akademikus

Matter and energy. Elet tud 16 no.21:660-661 21 My '61.

ERDEY-GRUZ, Tibor; BERKY, Denes; KAPOSI, Oliver; ROZSONDAI, Bela

Automatic timer for capillary viscosimeters. Magy Kem folycir
67 no.2: 200-203 My '61.

1. Eotvos Lorand Tudomanyegyetem Fizikai Kemial es Radiologial
Tanszeke, Budapest 2. "Magyar Kemial Folycirat" felelos szerkesztoje
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ERDEY-GRUZ, Tibor; GOLOPENCVANE ~~MAJOR~~, Olga

Effect of concentration and temperature on the overvoltage
of oxygen on platinum anode in sulfuric acid solution. Magy
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1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemial es Radiologial
Tanszeka, Budapest; Magyar Tudomanyos Akademia Elektrokemial
Kutato Csoportja. 2. "Magyar Kemial Folyoirat" felelos szerkesztoje
(for Erdey-Gruz).

ERDEY-GRUZ, Tibor; DÉVAY, Jozsef; SZEGEDI, Robert

Effect of sinus currents on electrode processes. IV. Effect of alternating currents on Hg-Zn corrosion in case of cathode-controlled process. Magy kem folyoir 67 no.10:444-446 O '61.

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemial es Radiologiasi Tanszeke, Budapest;Magyar Tudomanyos Akademia Elektrokemial Kutato Csoportja, Budapest 2. "Magyar Kemial Folyoirat" felelos szerkesztoje (for Erdey-Gruz).

ERDEY-GRUZ, Tibor; DEVAY, Jozsef; VAJASDY, Irma; HORANYI, Gyorgy; MESZAROS, Lajos

Effect of sinus currents on electrode processes. V. Overvoltage change calculation on mercury cathode caused by alternating currents. Magy kem folyoir 67 no.10:446-449 O '61.

1. Eotvos Lorant Tudomanyegyetem Fizikai-Kemiai es Radiologiai Tanszeke, Budapest;Magyar Tudomanyos Akademia Elektrokemial Kutato Csoportja, Budapest. 2."Magyar Kemial Folyoirat" Telelos szerkesztoje (for Erdey-Gruz).

ERDEY-GRUZ, Tibor; DEVAY, Jozsef; SZEGEDI, Robert; VAJASDY, Irma

Effect of sinusoidal current on electrode processes. VI. Effect of alternating current on Hg-Zn corrosion in case of anode control. Magy kem folyoir 67 no.12:512-517 D '61.

1. Metves Lorand Tudomanyegyetem, Fizikai-Kemiai es Radiológiai Tanszeka, Budapest es Magyar Tudományos Akadémia Elektrokémiai Kutató Csoportja. 2. Felelős szerkesztő, "Magyar Kémiai Folyeirat" (for Erdey-Gruz).

ERDEY-GRUZ, Tibor; DEVAY, Jozsef; SZEGEDI, Robert

Effect of sinusoidal current on electrode processes. VII. Effect of the unequal distribution of alternating current on the corrosion of Zn.
Magy kem folyoir 67 no.12:535-537 D '61.

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemial es Radiologial
Tanszeke, Budapest es Magyar Tudomanyos Akademia Elektrokemiai Kutato
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ERDEY-GRUZ, Tibor, akademikus, egy. tanar (Budapest)

Contribution to the material nature of the world. Magy tud 68 no.2:
(EEAI 10:6)
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1. Eotvos Lorand Tudomanyegyetem, Budapest.
(Matter) (Dialectical materialism)

ERDEY-GRUZ, Tibor, akademikus, egy. tanar (Budapest)

Struggle and unity of contradictions as seen by a chemist. Magy tud 68
no. 7/8:415-428 Jl-Ag '61.

1. Eotvos Lorand Tudomanyegyetem, Budapest.

ERDEY-GRUZ, Tibor; DEVAY, Jozsef; HCRANYI, Gyorgy; VAJASDY, Irma; MESZAROS,
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al investigation of the effect exerted on hydrogen over-voltage
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folyoir 67 no.9:378-384 S '61.

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemiai es Radiologial
Tanszeke, Budapest; Magyar Tudomanyos Akademia Elektrokemiai
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ERDEY-GURZ, Tibor; DEVAY, Jozsef; SZEGEDI, Robert

Effect of sinus current on electrode processes.III.Effect of sinus current on the electrolyzing direct current distribution in mercury cathodes. Magy kem folyoir 67 no.9:384-387 S '61.

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemial es Radiologial Tanszeke, Budapest; Magyar Tudomanyos Akademia Elektrokemial Kutato Csoporthja. 2."Magyar Kemial Folyoirat" felelos szerkesztoje (for Erdey-Gruz).

BECK, Mihaly; BITE, Pal; BRUCKNER, Gyozo; CSENTES, Jozsef; CSUROS, Zoltan;
DEAK, Gyula; ERDEY-GRUZ, Tihor; ERDEY, Laszlo; FABIAN, Pal;
FINALY, Istvan; FODOR, Gabor; FODORNE CSAHYI, Piroska;
GYORBIRO, Karoly; INZELT, Istvan; KUCSMAN Arpad; NEUMANN, Erno;
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Rules for the Hungarian chemical nomenclature and orthography.
Kem tud kozl MTA 17 no.1/4:1-292 '62.

1. "A Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak Kozlemenyei" szerkeszto bizottsagi tagja (for Bruckner, Csuros, Laszlo Erdey, G.Fodor, and Schulek).
2. "A Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak Kozlemenyei" szerkesztoje (for Erdey-Gruz).
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ERDEY-CRUZ, Tibor

Perspective plan of scientific research. Musz elet 17 no.6:
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ERDEY-GRUZ, Tibor, akademikus; BRUCKNER, Gyozo, akademikus; LENGYEL, Bela; TELEGGY-KOVATS, Laszlo, a tudomanyok doktora; HARDY, Gyula, kandidatus; GERECS, Arpad, akademikus; FOLDI, Zoltan; WOLKOVER, Zoltan; TUDOS, Ferenc, kandidatus; PURMAN, Jeno; KRAUSZ, Imre, kandidatus; ERDEY, Laszlo, akademikus; SCHAY, Geza, akademikus

An account of the 1961 work of the Section of Chemical Sciences, Hungarian Academy of Sciences. Kem tud kozl 18 no.3:343-394 '62.

1. Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak titkara, es "A Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak Kozlemenyei" szerkesztoje (for Erdey-Gruz). 2. Akademiai levelező tag (for Lengyel and Foldi). 3. "A Magyar Tudomanyos Akademia Kemial Tudomanyok Osztalyanak Kozlemenyei" szerkeszto bizottsagi tagja (for Bruckner, Erdey, Foldi, Gerecs, Hardy, Lengyel, Schay, Tudos).

ERDEY-GRUZ, Tibor, prof., dr. (Budapest VIII., Puskin u.11-13); DEVAI,
Jozsef, dr. (Budapest VIII., Puskin u.11-13); HORANYI, Gyorgy
(Budapest VIII., Puskin u.11-13); VAJASDY, Irma (Budapest VIII.,
Puskin u.11-13); MESZAROS, Lajos (Budapest VIII., Puskin u.11-13)

Data on the effect of a sinus current on electrode processes.II.
Mathematical investigation of the effect of a sinus current on
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Acta chimica Hung 30 no.4:431-444 '62.

1. Physikalisch-Chemischer und Radiologischer Lehrstuhl der Lo-
rand Eotvos Universitat, und Elektrochemische Forschungsgruppe
der Ungarischen Akademie der Wissenschaften. 2. Editorial Board
Member, "Acta Chimica" (for Erdey-Gruz).

ERDEY-GRUZ, Tibor, prof., dr. (Budapest VIII., Puskin u.11-13);
BERKY, Denes (Budapest VIII., Puskin u.11-13);
KAPOSI, Oliver (Budapest VIII., Puskin u.11-13);
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Acta chimica Hung 31 no.4:385-392 '62.

1. Lehrstuhl fur Physikalische Chemie und Radiologie der L.
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Erdey-Grusz).

ERDEY-CRUZ, Tibor, prof., dr. (Budapest VIII., Puskin u.11-13);
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On the effect of sinusoidal current on electrode processes.III.
The effect of sinusoidal current on the distribution of
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1. Lehrstuhl fur physikalische Chemie und Radiologie L. Eotvos
Universitat, Budapest; und Forschungsgruppe fur & Elektrochemie
der Ungarischen Akademie der Wissenschaften, Budapest. 2. "Acta
Chimica Academiae Scientiarum Hungaricae" szerkeszto bizottsagi
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ERDEY-GRUZ, Tibor, prof., dr. (Budapest, VIII., Puskin u. 11-13); DEVAY,
Jozsef, dr. (Budapest, VIII., Puskin u. 11-13); SZEGEDI, Robert
(Budapest, VIII., Puskin u. 11-13)

On the effect of a sinusoidal current on electrode processes. IV.
Acta chimica Hung 32 no.3:355-361 '62.

1. Lehrstuhl fur physikalische Chemie und Radiologie der Lorand
Eotvos Universitat, Budapest, und Elektronische Forschungsgruppe
der Ungarischen Akademie der Wissenschaften, Budapest.
2. Mitglied, Redaktionskollegium, "Acta Chimica Academiae
Scientiarum Hungaricae." (for Erdey-Gruz).

ERDEY-GRUZ, Tibor, prof., dr (Budapest, VIII., Puskin u.11-13); DEVAY,
JÓZSEF, dr. (Budapest, VIII., Puskin u.11-13); VAJASDY, Irma
(Budapest, VIII., Puskin u.11-13); HORANYI, Gyorgy (Budapest, VIII.,
Puskin u.11-13); MESZAROS, Lajos (Budapest, VIII., Puskin u.11-13)

On the effect of a sinusoidal current on electrode processes. V.
Acta chimica Hung 32 no.3:364-370 '62.

1. Lehrstuhl fur physikalische Chemie und Radiologie der Lorant
Eotvos Universitat, Budapest, und Elektrochemische Forschungsgruppe
der Ungarischen Akademie der Wissenschaften, Budapest. 2. Mitglied,
Redaktionskollegium, "Acta Chimica Academiae Scientiarum
Hungaricae" (for Drdey-Gruz).

ERDEY-GRUZ, Tibor; VAJASDY, Irma

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F '62.

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemiai es Radiologiai
Tanszeke, Budapest. 2. "Magyar Kemial Folyoirat" felelos
szerkesztoje (for Erdey-Gruz).

ERDEY-GRUZ, Tibor; DEVAY, Jozsef; SZEGEDI, Robert

The effect of sinus currents on electrode processes.VIII.
Effect of alternating currents on the strength of direct currents flowing between polarized Zn-electrodes. (To be contd.)
Magy kem folyoir 68 no.4:140-142 Ap '62

1. Eotvos Lorand Tudomanyegyetem Fizikai-Kemial es Radiologist & Tanszeke, es Magyar Tudomanyos Akademia Elektrokemial Kutato Csoportja, Budapest. "Magyar Kemial Folyoirat" felelos szerkesztoje(for Erdey-Gruz).

ERDEY-CRUZ, Tibor; DEVAY, Jozsef; HORANYI, Gyorgy; VAJASDY, Irma;
MESZAROS, Lajos

The effect of sinus currents on electrode processes.IX. Modeling
of the hydrogen overvoltage reduction caused by alternating cur-
rents on mercury electrodes. Magy kem folyoir 68 no.4:143-145 Ap '62

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Tanszeke, es Magyar Tudomanyos Akademia Elektrokemial Kutato
Csoportja, Budapest. "Magyar Kemial Foloirat" felflos szerkesztoje
(for Erdey-Cruz).

ERDEY-CRUZ, Tibor, akademikus

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Magy tud 69 no.4:203-224 Ap '62.

1. Tudomanyos es Felsooktatasi Tanacs alelnöke, Budapest.